

## ABSTRACT OF THE DISCLOSURE

In an optical element, a propagation direction of incident light beam is largely changed and the direction-changed light beam is derived in a desirable direction without increasing a dimension and manufacturing cost thereof. The optical element includes photonic crystal having a refractive index which changes periodically depending on a location of the photonic crystal, wherein an angle defined between a first end face and a second end face thereof is determined in such a manner that a light beam incident upon the first end face at a predetermined incidence angle and having a predetermined wavelength is emitted from the second end face in a desirable direction.

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